NC/QC/DD-MVC/2018-19/C1 Date: 14-09-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**171 min**	Shall not be less than 30 min
2	Final setting time	**258 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.18 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.79 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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NC/QC/DD-MVC/2018-19/C2

Date: 15-09-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**283 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.49 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NC/QC/DD-MVC/2018-19/-FA1 **Date: 17-09-2018**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.50**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**88.10**	60-95	75-100	85-100	
01.18	**74.25**	30-70	55-90	75-100	
600. mic	**50.95**	15.34	35-59	60-79	
300.mic	**17.40**	5-20	8-30	12-40	
150.mic	**6.20**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.10 %**	-----
2	Silt Content	----	**0.64 %**	Not more than 8%
3	Specific Gravity	----	**2.69**	-------

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,

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NC/QC/DD-MVC/2018-19/S1

Date: 17-09-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 08, 10 & 16 mm **TMT Steel.**
{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.393**	0.363	**0.621**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**539.0**	500.0	**546.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.60**	12.00	**21.00**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**631.0**	545.0	**643.0**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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NC/QC/DD-MVC/2018-19/CB3 Date: 28-09-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-09-18	28-09-18	07	22500	375	16.67	**16.59**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	380	16.89	

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/DD-MVC/2018-19/CB1A

Date: 17-10-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-09-18	17-10-18	28	22500	525	23.33	22.67
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	505	22.44	

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/DD-MVC/2018-19/CB3A

Date: 20-10-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Medarahalli village cross road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-09-18	20-10-18	29	22500	490	21.78	**22.30**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

*As Furnished by Client.

The Results relate only to the items tested.

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Proprietor

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